

GENERAL INFORMATION (6 Sep 00)

Web site for this course: <http://d01bln.lbl.gov/105f00-web.htm> . If this site is busy, as may occur during times of peak demand, use the partial mirror at <http://www.bestofberkeley.com> .

Instructors: Prof. **Mark Strovink**, 437 LeConte; (LBL) 486-7087; (home, before 10) 486-8079; (UC) 642-9685. Email: strovink@lbl.gov . Web: <http://d01bln.lbl.gov> . Office hours: M 3:15-4:15, 5:30-6:30. Mr. **Robin Blume-Kohout**, 279 LeConte, (UC) 642-5647; (home, 10-10) 215-1541. Email: rbk@socrates.berkeley.edu . Office hours (in 279 LeConte): M Tu 2:30-3:30.

Lectures: TuTh 11:10-12:30 and W 5:10-6:30, all in 329 LeConte. The W 5:10-6:30 slot will be used at various times during the semester for the four 50-minute exams; the first two weeks of section; reviews and special lectures; and, occasionally, lectures to substitute for those that would normally be delivered on Th 11:10-12:30. Lecture attendance is strongly encouraged, since the course content is not exactly the same as that of the textbook. Sixty-one pages of typeset lecture notes used for Physics 105 in Fall 1994 are linked to the web site for the present course and are part of the **Reader**.

Discussion Sections: Tu 4:10-5 in 183 Dwinelle, and Th 5:10-6 in 343 LeConte. During the first two weeks, because of room unavailability, there will be only one combined section: W 5:10-6 in 329 LeConte. Taught by Mr. Blume-Kohout. You are especially encouraged to attend discussion section regularly. There you will learn techniques of problem solving, with particular application to the assigned exercises.

Text (required): Hand and Finch, **Analytical Mechanics** (Cambridge paperback or hardcover, 1998).

Reader (required): 88 pp of typeset material. Print it from the web, or buy it at Copy Central for ~\$6.

Problem Sets: A required and most important part of the course. Thirteen problem sets are assigned and graded. For each assigned problem, the grading scale is the same: “0” = “problem was not attempted”; “1” = “problem was attempted”. If your solution is incorrect, the grader will endeavor to write comments that will help you see where you went astray. Solutions to *all* assigned problems *are now available* on the course web site. Problem sets are due on Mondays at 4:15 PM, beginning in week 2, except for Thanksgiving week. Deposit problem sets in the box labeled “105 Section 2 (Strovink)” in the second floor breezeway between LeConte and Birge Hall. You are encouraged to attempt all of the problems. Students who do not do so find it almost impossible to learn the material and to succeed on the examinations. Late papers will not be graded. Your lowest problem set score will be dropped, in lieu of due date extensions for any reason.

Exams: There will be four 50-minute examinations (one exam every three weeks, beginning in the third week), and one 3-hour final examination. Before confirming your enrollment in this class, please check that its final Exam Group 9 does not conflict with the Exam Group for any other class in which you are enrolled. Please verify now that you will be available for all four of the 50-minute examinations, on W 13 Sep, W 4 Oct, W 25 Oct, and W 15 Nov, 5:10-6:00 PM; and for the final examination, F 15 Dec, 5-8 PM. Your lowest 50-minute exam score will be dropped, in lieu of absences for any reason. Except for unforeseeable emergencies, it will not be possible for the final exam to be rescheduled. Passing 105 requires passing the final exam.

Grading: 20% problem sets, 40% 50-minute examinations, 40% final exam. Departmental regulations call for an A:B:C distribution in the ratio 2:3:2, with approximately 10-15% D's or F's. However, the fraction of D's or F's depends on you; no minimum number need be given.